

ABSTRACT

ENHANCEMENT OF MAGNETIZATION SWITCHING SPEED IN SOFT FERROMAGNETIC FILMS THROUGH CONTROL OF EDGES STRESS ANISOTROPY

A method for fabricating a soft ferromagnetic film structure with reduced edge stress
5 anisotropy and enhanced magnetization switching speed. A soft ferromagnetic film structure
is formed over an underlying structure. The soft ferromagnetic film structure has one or more
edges exhibiting edge stress anisotropy. A non-ferromagnetic film structure is formed along
the one or more edges to induce stress contributions therein that control the edge stress
anisotropy.

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